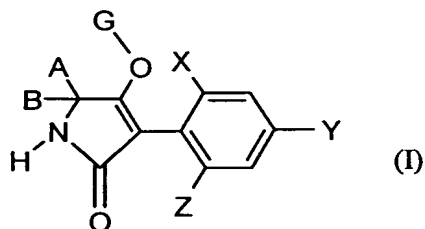


Patent claims

1. Compounds of the formula (I)



5 in which

X represents halogen,

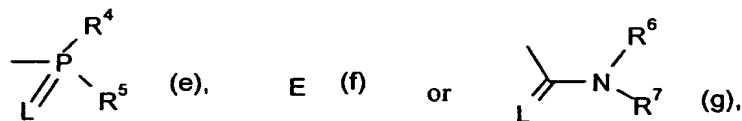
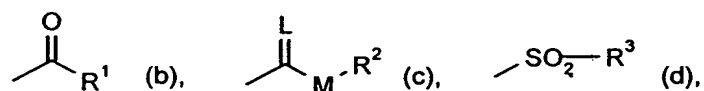
Y represents alkyl and

Z represents C₂-C₆-alkyl,

10 A and B together with the carbon atom to which they are attached represent a saturated or unsaturated C₃-C₈-ring which optionally contains at least one heteroatom and which is optionally substituted by alkoxy or haloalkyl,

and

G represents hydrogen (a) or represents one of the groups



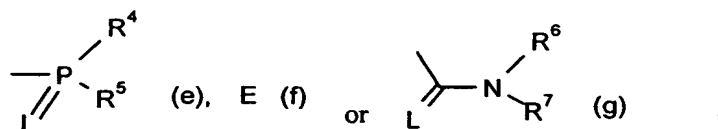
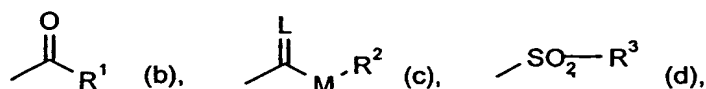
15 in which

E represents a metal ion equivalent or an ammonium ion,

L represents oxygen or sulphur,

M represents oxygen or sulphur,

- R^1 represents in each case optionally substituted alkyl, alkenyl, alkoxyalkyl, alkylthio-alkyl or polyalkoxyalkyl or represents in each case optionally halogen-, alkyl- or alkoxy-substituted cycloalkyl or heterocyclyl or represents in each case optionally substituted phenyl, phenylalkyl, phenylalkenyl or hetaryl,
- 5 R^2 represents in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl or polyalkoxyalkyl or represents in each case optionally substituted cycloalkyl, phenyl or benzyl,
- 10 R^3 , R^4 and R^5 independently of one another represent in each case optionally halogen-substituted alkyl, alkoxy, alkylamino, dialkylamino, alkylthio, alkenylthio or cycloalkylthio or represent in each case optionally substituted phenyl, benzyl, phenoxy or phenylthio,
- 15 R^6 and R^7 independently of one another represent hydrogen, represent in each case optionally halogen-substituted alkyl, cycloalkyl, alkenyl, alkoxy, alkoxyalkyl, represent in each case optionally substituted phenyl or benzyl, or together with the N atom to which they are attached form an optionally substituted cycle which optionally contains oxygen or sulphur.
2. Compounds of the formula (I) according to Claim 1, in which
- X represents chlorine or bromine,
- Y represents C_1 - C_3 -alkyl,
- 20 Z represents ethyl, n-propyl or n-butyl,
- A, B and the carbon atom to which they are attached represent saturated C_3 - C_8 -cycloalkyl in which optionally one methylene group is replaced by oxygen or sulphur and which is optionally substituted by C_1 - C_4 -haloalkyl or C_1 - C_6 -alkoxy,
- G represents hydrogen (a) or represents one of the groups



in which

E represents a metal ion equivalent or an ammonium ion,

L represents oxygen or sulphur and

M represents oxygen or sulphur,

5 R^1 represents C_1 - C_{20} -alkyl, C_2 - C_{20} -alkenyl, C_1 - C_6 -alkoxy- C_1 - C_6 -alkyl, C_1 - C_6 -alkylthio- C_1 - C_6 -alkyl or poly- C_1 - C_4 -alkoxy- C_1 - C_4 -alkyl, each of which is optionally mono- to heptasubstituted by halogen, mono- or disubstituted by cyano, monosubstituted by COR^{13} , $C=N-OR^{13}$, CO_2R^{13} or $CON \begin{smallmatrix} R^{13} \\ R^{13} \end{smallmatrix}$, or represents C_3 - C_8 -cycloalkyl which is optionally mono- to trisubstituted by halogen, C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy and in
10 which optionally one or two not directly adjacent methylene groups are replaced by oxygen and/or sulphur,

 represents phenyl, phenyl- C_1 - C_2 -alkyl or phenyl- C_1 - C_2 -alkenyl, each of which is optionally mono- to trisubstituted by halogen, cyano, nitro, C_1 - C_6 -alkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -haloalkyl, C_1 - C_6 -haloalkoxy, C_1 - C_6 -alkylthio, C_1 - C_6 -alkylsulphinyl or
15 C_1 - C_6 -alkylsulphonyl,

 represents 5- or 6-membered hetaryl which is optionally mono- or disubstituted by halogen or C_1 - C_6 -alkyl and which contains one or two heteroatoms from the group consisting of oxygen, sulphur and nitrogen,

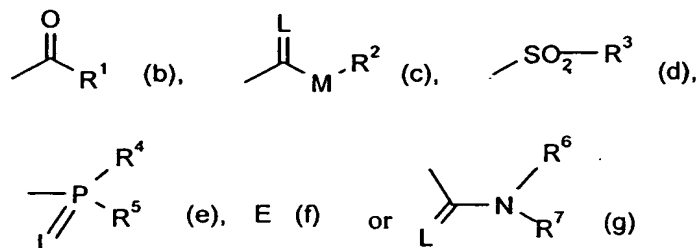
20 R^2 represents C_1 - C_{20} -alkyl, C_2 - C_{20} -alkenyl, C_1 - C_6 -alkoxy- C_2 - C_6 -alkyl or poly- C_1 - C_6 -alkoxy- C_2 - C_6 -alkyl, each of which is optionally mono- to trisubstituted by halogen,

 represents C_3 - C_8 -cycloalkyl which is optionally mono- or disubstituted by halogen, C_1 - C_6 -alkyl or C_1 - C_6 -alkoxy or

25 represents phenyl or benzyl, each of which is optionally mono- to trisubstituted by halogen, cyano, nitro, C_1 - C_6 -alkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -haloalkyl or C_1 - C_6 -haloalkoxy,

R^3 represents C_1 - C_8 -alkyl which is optionally mono- or polysubstituted by halogen or represents phenyl or benzyl, each of which is optionally mono- or disubstituted by halogen, C_1 - C_6 -alkyl, C_1 - C_6 -alkoxy, C_1 - C_4 -haloalkyl, C_1 - C_4 -haloalkoxy, cyano or nitro,

- 5 R^4 and R^5 independently of one another represent C_1 - C_8 -alkyl, C_1 - C_8 -alkoxy, C_1 - C_8 -alkyl-amino, di- $(C_1$ - C_8 -alkyl)amino, C_1 - C_8 -alkylthio or C_2 - C_8 -alkenylthio, each of which is optionally mono- to trisubstituted by halogen, or represent phenyl, phenoxy or phenylthio, each of which is optionally mono- to trisubstituted by halogen, nitro, cyano, C_1 - C_4 -alkoxy, C_1 - C_4 -haloalkoxy, C_1 - C_4 -alkylthio, C_1 - C_4 -haloalkylthio, C_1 - C_4 -alkyl or C_1 - C_4 -haloalkyl,
- 10 R^6 and R^7 independently of one another represent hydrogen, represent C_1 - C_8 -alkyl, C_3 - C_8 -cycloalkyl, C_1 - C_8 -alkoxy, C_3 - C_8 -alkenyl or C_1 - C_8 -alkoxy- C_2 - C_8 -alkyl, each of which is optionally mono- to trisubstituted by halogen, represent phenyl or benzyl, each of which is optionally mono- to trisubstituted by halogen, C_1 - C_8 -alkyl, C_1 - C_8 -haloalkyl or C_1 - C_8 -alkoxy, or together represent a C_3 - C_6 -alkylene radical which is optionally mono- or disubstituted by C_1 - C_4 -alkyl and in which optionally one methylene group is replaced by oxygen or sulphur,
- 15 R^{13} represents C_1 - C_6 -alkyl, C_3 - C_6 -alkenyl, C_3 - C_6 -alkynyl or C_1 - C_4 -alkoxy- C_2 - C_4 -alkyl, each of which is optionally mono- to trisubstituted by halogen, or represents C_3 - C_6 -cycloalkyl which is optionally mono- or disubstituted by halogen, C_1 - C_2 -alkyl or C_1 - C_2 -alkoxy and in which optionally one or two not directly adjacent methylene groups are replaced by oxygen, or represents phenyl or phenyl- C_1 - C_2 -alkyl, each of which is optionally mono- or disubstituted by halogen, C_1 - C_4 -alkyl, 20 C_1 - C_4 -alkoxy, C_1 - C_2 -haloalkyl, C_1 - C_2 -haloalkoxy, cyano or nitro
- R^{13} represents hydrogen, C_1 - C_6 -alkyl or C_3 - C_6 -alkenyl.
3. Compounds of the formula (I) according to Claim 1, in which
- X represents chlorine or bromine,
- Y represents methyl or ethyl,
- 25 Z represents ethyl or n-propyl,
- A, B and the carbon atom to which they are attached represent saturated C_3 - C_7 -cycloalkyl in which optionally one methylene group is replaced by oxygen and which is optionally monosubstituted by C_1 - C_2 -haloalkyl or C_1 - C_4 -alkoxy,
- G represents hydrogen (a) or represents one of the groups



in which

E represents a metal ion equivalent or an ammonium ion,

L represents oxygen or sulphur and

5 M represents oxygen or sulphur,

10 R¹ represents C₁-C₁₀-alkyl, C₂-C₁₀-alkenyl, C₁-C₄-alkoxy-C₁-C₂-alkyl, C₁-C₄-alkylthio-C₁-C₂-alkyl or poly-C₁-C₃-alkoxy-C₁-C₂-alkyl, each of which is optionally mono- to pentasubstituted by fluorine or chlorine, monosubstituted by cyano, monosubstituted by CO-R¹³, C=N-OR¹³ or CO₂R¹³, or represents C₃-C₆-cycloalkyl which is optionally mono- or disubstituted by fluorine, chlorine, C₁-C₂-alkyl or C₁-C₂-alkoxy and in which optionally one or two not directly adjacent methylene groups are replaced by oxygen,

represents phenyl or benzyl, each of which is optionally mono- or disubstituted by
fluorine, chlorine, bromine, cyano, nitro, C₁-C₄-alkyl, C₁-C₄-alkylthio, C₁-C₄-alkyl-
sulphinyl, C₁-C₄-alkylsulphonyl, C₁-C₄-alkoxy, C₁-C₂-haloalkyl or C₁-C₂-haloalkoxy,

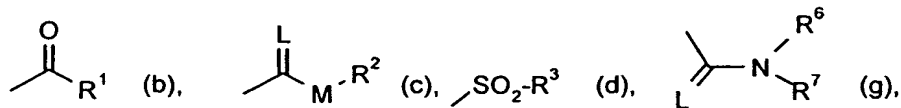
represents pyrazolyl, thiazolyl, pyridyl, pyrimidyl, furanyl or thienyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine or C₁-C₂-alkyl,

20 R^2 represents C_1 - C_{10} -alkyl, C_2 - C_{10} -alkenyl, C_1 - C_4 -alkoxy- C_2 - C_4 -alkyl or poly- C_1 - C_4 -alkoxy- C_2 - C_4 -alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine,

represents C₃-C₇-cycloalkyl which is optionally monosubstituted by C₁-C₂-alkyl or C₁-C₂-alkoxy, or

represents phenyl or benzyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, cyano, nitro, C₁-C₄-alkyl, methoxy, trifluoromethyl or trifluoromethoxy,

- R^3 represents C_1 - C_4 -alkyl which is optionally mono- to trisubstituted by fluorine or chlorine or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, bromine, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,
- 5 R^4 and R^5 independently of one another each represent C_1 - C_6 -alkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -alkylamino, di- $(C_1$ - C_6 -alkyl)amino, C_1 - C_6 -alkylthio or C_3 - C_4 -alkenylthio, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represent phenyl, phenoxy or phenylthio, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, nitro, cyano, C_1 - C_3 -alkoxy, trifluoromethoxy, C_1 - C_3 -alkylthio, C_1 - C_3 -alkyl or trifluoromethyl,
- 10 R^6 and R^7 independently of one another represent hydrogen, represent C_1 - C_6 -alkyl, C_3 - C_6 -cycloalkyl, C_1 - C_4 -alkoxy, C_3 - C_6 -alkenyl or C_1 - C_6 -alkoxy- C_2 - C_6 -alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, represent phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, trifluoromethyl, C_1 - C_4 -alkyl or C_1 - C_4 -alkoxy, or together represent a C_5 - C_6 -alkylene radical which is optionally mono- or disubstituted by methyl and in which optionally one methylene group is replaced by oxygen,
- 15 R^{13} represents C_1 - C_4 -alkyl, C_3 - C_4 -alkenyl, C_3 - C_4 -alkynyl or C_1 - C_4 -alkoxy- C_2 - C_3 -alkyl or C_3 - C_4 -cycloalkyl in which optionally one methylene group is replaced by oxygen.
- 20 4. Compounds of the formula (I) according to Claim 1 in which
- X represents chlorine or bromine,
- Y represents methyl,
- Z represents ethyl,
- 25 A, B and the carbon atom to which they are attached represent saturated C_6 -cycloalkyl in which optionally one methylene group is replaced by oxygen and which is optionally monosubstituted by trifluoromethyl, methoxy, ethoxy, n-propoxy, isopropoxy, n-butoxy or isobutoxy,
- G represents hydrogen (a) or represents one of the groups



in which

L represents oxygen and

M represents oxygen or sulphur,

- 5 R^1 represents C_1 - C_6 -alkyl, C_2 - C_6 -alkenyl, C_1 - C_2 -alkoxy- C_1 - C_2 -alkyl, C_1 - C_2 -alkylthio- C_1 - C_2 -alkyl or poly- C_1 - C_2 -alkoxy- C_1 - C_2 -alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents cyclopropyl, cyclopentyl or cyclohexyl, each of which is optionally monosubstituted by fluorine, chlorine, methyl, ethyl or methoxy,
- 10 represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, ethyl, n-propyl, isopropyl, methoxy, ethoxy, methylthio, ethylthio, methylsulphinyl, ethylsulphinyl, methylsulphonyl, ethylsulphonyl, trifluoromethyl or trifluoromethoxy,
- 15 represents furanyl, thienyl or pyridyl, each of which is optionally monosubstituted by chlorine, bromine or methyl,
- 20 R^2 represents C_1 - C_8 -alkyl, C_2 - C_6 -alkenyl or C_1 - C_3 -alkoxy- C_2 - C_3 -alkyl, cyclopentyl or cyclohexyl,
- or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy,
- 25 R^3 represents C_1 - C_4 -alkyl which is optionally mono- to trisubstituted by fluorine or chlorine or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, bromine, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,
- R^6 represents hydrogen, represents C_1 - C_4 -alkyl, C_3 - C_6 -cycloalkyl or allyl, represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, methyl, methoxy or trifluoromethyl,
- R^7 represents methyl, ethyl, n-propyl, isopropyl or allyl,

R^6 and R^7 together represent a C_5 - C_6 -alkylene radical in which optionally one methylene group is replaced by oxygen.

5. Compounds of the formula (I) according to Claim 1 in which

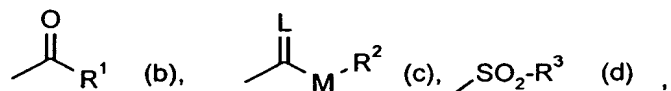
X represents chlorine or bromine,

5 Y represents methyl,

Z represents ethyl,

A, B and the carbon atom to which they are attached represent saturated C_6 -cycloalkyl in which optionally one methylene group is replaced by oxygen and which is optionally monosubstituted by methoxy, ethoxy, n-propoxy, isopropoxy, n-butoxy or isobutoxy,

10 G represents hydrogen (a) or represents one of the groups



in which

L represents oxygen and

M represents oxygen,

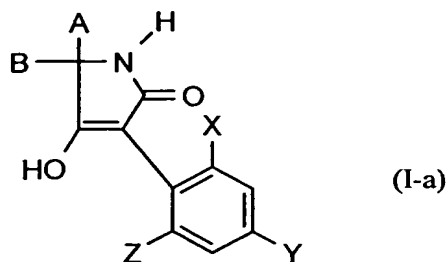
15 R^1 represents C_1 - C_6 -alkyl, C_1 - C_2 -alkoxy- C_1 - C_2 -alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents cyclopropyl,

R^2 represents C_1 - C_8 -alkyl or C_2 - C_6 -alkenyl,

R^3 represents C_1 - C_4 -alkyl.

20 6. Process for preparing compounds of the formula (I) according to Claim 1, characterized in that, to obtain

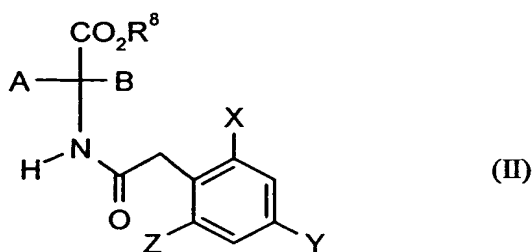
(A) compounds of the formula (I-a),



in which

A, B, X, Y and Z are as defined above,

compounds of the formula (II),



5

in which

A, B, X, Y and Z are as defined above

and

R^8 represents alkyl,

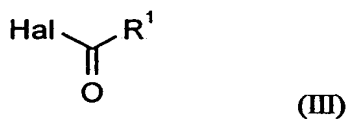
10

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

(B) compounds of the formula (I-b) shown above in which A, B, R^1 , X, Y and Z are as defined above, compounds of the formula (I-a) shown above in which A, B, X, Y and Z are as defined above are reacted

15

α) with acid halides of the formula (III),



in which

R^1 is as defined above and

Hal represents halogen

or

β) with carboxylic anhydrides of the formula (IV),



in which

R^1 is as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

10 (C) compounds of the formula (I-c) shown above in which A, B, R^2 , M, X, Y and Z are as defined above and L represents oxygen, compounds of the formula (I-a) shown above in which A, B, X, Y and Z are as defined above are in each case reacted

with chloroformic esters or chloroformic thioesters of the formula (V),



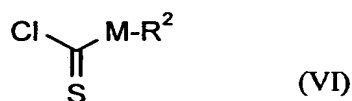
15 in which

R^2 and M are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

20 (D) compounds of the formula (I-c) shown above in which A, B, R^2 , M, X, Y and Z are as defined above and L represents sulphur, compounds of the formula (I-a) shown above in which A, B, X, Y and Z are as defined above are in each case reacted

α) with chloromonothioformic esters or chlorodithioformic esters of the formula (VI)



in which

M and R² are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder

or

- 5 β) with carbon disulphide and then with compounds of the formula (VII)



in which

R² is as defined above and

Hal represents chlorine, bromine or iodine,

- 10 if appropriate in the presence of a diluent and if appropriate in the presence of a base,

- (E) compounds of the formula (I-d) shown above in which A, B, R³, X, Y and Z are as defined above, compounds of the formula (I-a) shown above in which A, B, X, Y and Z are as defined above are in each case reacted

with sulphonyl chlorides of the formula (VIII)

- 15 R³-SO₂-Cl (VIII)

in which

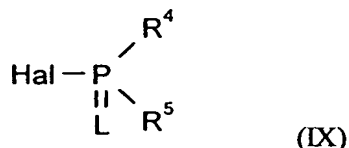
R³ is as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

- 20 (F) compounds of the formula (I-e) shown above in which A, B, L, R⁴, R⁵, X, Y and Z are as defined above, compounds of the formula (I-a) shown above in which A, B, X, Y and Z are as defined above are in each case reacted

with phosphorus compounds of the formula (IX)

- 134 -



in which

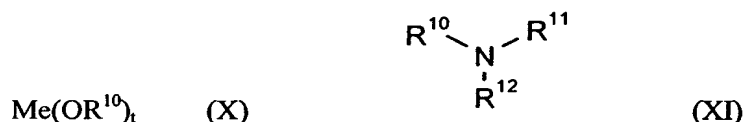
L, R⁴ and R⁵ are as defined above and

Hal represents halogen,

5 if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

(G) compounds of the formula (I-f) shown above in which A, B, E, X, Y and Z are as defined above, compounds of the formula (I-a) shown above in which A, B, X, Y and Z are as defined above are in each case reacted

10 with metal compounds or amines of the formulae (X) and (XI), respectively,



in which

Me represents a mono- or divalent metal

t represents the number 1 or 2 and

15 R¹⁰, R¹¹, R¹² independently of one another represent hydrogen or alkyl,

if appropriate in the presence of a diluent,

(H) compounds of the formula (I-g) shown above in which A, B, L, R⁶, R⁷, X, Y and Z are as defined above, compounds of the formula (I-a) shown above in which A, B, X, Y and Z are as defined above are in each case reacted

20 α) with isocyanates or isothiocyanates of the formula (XII),

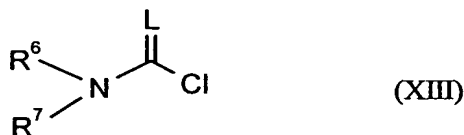


in which

R^6 and L are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of a catalyst, or

B) with carbamoyl chlorides or thiocarbamoyl chlorides of the formula (XIII)



5

in which

L, R^6 and R^7 are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder.

- 10 7. Use of compounds of the formula (I) according to Claim 1 for preparing pesticides and/or herbicides.
8. Pesticides and/or herbicides, characterized in that they comprise at least one compound of the formula (I) according to Claim 1.
9. Method for controlling animal pests and/or unwanted vegetation, characterized in that compounds of the formula (I) according to Claim 1 are allowed to act on pests and/or their habitat.
- 15 10. Use of compounds of the formula (I) according to Claim 1 for controlling animal pests and/or unwanted vegetation.
11. Process for preparing pesticides and/or herbicides, characterized in that compounds of the formula (I) according to Claim 1 are mixed with extenders and/or surfactants.
- 20 12. Compositions, comprising an effective amount of a combination of active compound comprising
 - (a') at least one substituted cyclic ketoenol of the formula (I) according to Claim 1 in which A, B, G, X, Y and Z are as defined above

25

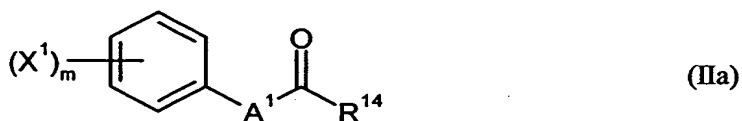
and

- b') at least one crop plant compatibility-improving compound from the following group of compounds:

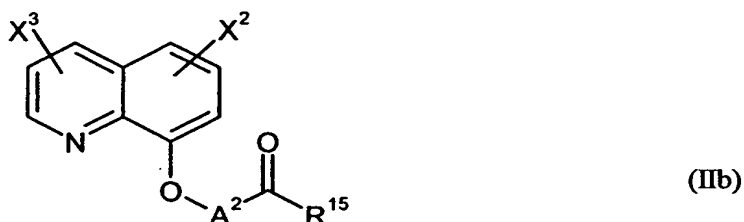
4-dichloroacetyl-1-oxa-4-azaspiro[4.5]decane (AD-67, MON-4660), 1-dichloroacetylhexahydro-3,3,8a-trimethylpyrrolo[1,2-a]pyrimidin-6(2H)-one
 5 (dicyclonon, BAS-145138), 4-dichloroacetyl-3,4-dihydro-3-methyl-2H-1,4-benzoxazine (benoxacor), 1-methylhexyl 5-chloroquinoline-8-oxyacetate (cloquintocet-mexyl - cf. also related compounds in EP-A-86750, EP-A-94349, EP-A-191736, EP-A-492366), 3-(2-chlorobenzyl)-1-(1-methyl-1-phenylethyl)urea (cumyluron), α -(cyanomethoximino)phenylacetoneitrile (cyometrinil),
 10 2,4-dichlorophenoxyacetic acid (2,4-D), 4-(2,4-dichlorophenoxy)butyric acid (2,4-DB), 1-(1-methyl-1-phenylethyl)-3-(4-methylphenyl)urea (daimuron, dymron), 3,6-dichloro-2-methoxybenzoic acid (dicamba), S-1-methyl 1-phenylethyl piperidine-1-thiocarboxylate (dimepiperate), 2,2-dichloro-N-(2-oxo-2-(2-propenylamino)ethyl)-N-(2-propenyl)acetamide (DKA-24), 2,2-dichloro-N,N-di-2-propenylacetamide (dichlorimid), 4,6-dichloro-2-phenylpyrimidine (fenclorim), ethyl 1-(2,4-dichlorophenyl)-5-trichloromethyl-1H-1,2,4-triazole-3-carboxylate (fenchlorazole-ethyl - cf. also related compounds in EP-A-174562 and EP-A-346620), phenylmethyl 2-chloro-4-trifluoromethylthiazole-5-carboxylate (flurazole), 4-chloro-N-(1,3-dioxolan-2-ylmethoxy)- α -trifluoroacetophenone
 20 oxime (fluxofenim), 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyloxazolidine (furilazole, MON-13900), ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (isoxadifen-ethyl - cf. also related compounds in WO-A-95/07897), 1-(ethoxycarbonyl)ethyl 3,6-dichloro-2-methoxybenzoate (lactidichlor), (4-chloro-o-tolyloxy)acetic acid (MCPA), 2-(4-chloro-o-tolyloxy)propionic acid (mecoprop),
 25 diethyl 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-1H-pyrazole-3,5-dicarboxylate (mefenpyr-diethyl - cf. also related compounds in WO-A-91/07874), 2-dichloromethyl-2-methyl-1,3-dioxolane (MG-191), 2-propenyl 1-oxa-4-azaspiro[4.5]decane-4-carbodithioate (MG-838), 1,8-naphthalic anhydride, α -(1,3-dioxolan-2-ylmethoximino)phenylacetoneitrile (oxabetrinil), 2,2-dichloro-N-(1,3-dioxolan-2-ylmethyl)-N-(2-propenyl)acetamide (PPG-1292), 3-dichloroacetyl-2,2-dimethyloxazolidine (R-28725), 3-dichloroacetyl-2,2,5-trimethyloxazolidine (R-29148), 4-(4-chloro-o-tolyl)butyric acid, 4-(4-chlorophenoxy)butyric acid, diphenylmethoxyacetic acid, methyl diphenylmethoxyacetate, ethyl diphenylmethoxyacetate, methyl 1-(2-chlorophenyl)-5-phenyl-1H-pyrazole-3-carboxylate,
 30 ethyl 1-(2,4-dichlorophenyl)-5-methyl-1H-pyrazole-3-carboxylate, ethyl 1-(2,4-dichlorophenyl)-5-isopropyl-1H-pyrazole-3-carboxylate, ethyl 1-(2,4-

dichlorophenyl)-5-(1,1-dimethylethyl)-1H-pyrazole-3-carboxylate, ethyl 1-(2,4-dichlorophenyl)-5-phenyl-1H-pyrazole-3-carboxylate (cf. also related compounds in EP-A-269806 and EP-A-333131), ethyl 5-(2,4-dichlorobenzyl)-2-isoxazoline-3-carboxylate, ethyl 5-phenyl-2-isoxazoline-3-carboxylate, ethyl 5-(4-fluorophenyl)-5-phenyl-2-isoxazoline-3-carboxylate (cf. also related compounds in WO-A-91/08202), 1,3-dimethylbut-1-yl 5-chloroquinoline-8-oxyacetate, 4-allyloxybutyl 5-chloroquinoline-8-oxyacetate, 1-allyloxyprop-2-yl 5-chloroquinoline-8-oxyacetate, methyl 5-chloroquinoxaline-8-oxyacetate, ethyl 5-chloroquinoline-8-oxyacetate, allyl 5-chloroquinoxaline-8-oxyacetate, 2-oxoprop-1-yl 5-chloroquinoline-8-oxyacetate, diethyl 5-chloroquinoline-8-oxymalonate, diallyl 5-chloroquinoxaline-8-oxymalonate, diethyl 5-chloroquinoline-8-oxymalonate (cf. also related compounds in EP-A-582198), 4-carboxychroman-4-ylacetic acid (AC-304415, cf. EP-A-613618), 4-chlorophenoxyacetic acid, 3,3'-dimethyl-4-methoxybenzophenone, 1-bromo-4-chloromethylsulphonylbenzene, 1-[4-(N-2-methoxybenzoylsulphamoyl)phenyl]-3-methylurea (also known as N-(2-methoxybenzoyl)-4-[(methylaminocarbonyl)amino]benzenesulphonamide), 1-[4-(N-2-methoxybenzoylsulphamoyl)phenyl]-3,3-dimethylurea, 1-[4-(N-4,5-dimethylbenzoylsulphamoyl)phenyl]-3-methylurea, 1-[4-(N-naphthylsulphamoyl)phenyl]-3,3-dimethylurea, N-(2-methoxy-5-methylbenzoyl)-4-(cyclopropylaminocarbonyl)benzenesulphonamide,

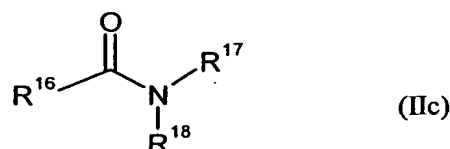
and/or one of the following compounds, defined by general formulae, of the general formula (IIa)



or of the general formula (IIb)



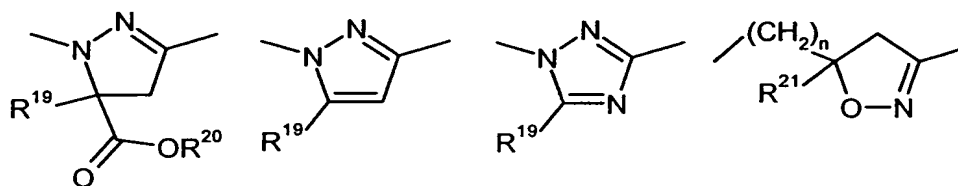
or of the formula (IIc)



where

m represents the number 0, 1, 2, 3, 4 or 5,

5 A¹ represents one of the divalent heterocyclic groupings shown below,



n represents the number 0, 1, 2, 3, 4 or 5,

A² represents optionally C₁-C₄-alkyl- and/or C₁-C₄-alkoxy-carbonyl- and/or C₁-C₄-alkenyloxy-carbonyl-substituted alkanediyl having 1 or 2 carbon atoms,

10 R¹⁴ represents hydroxyl, mercapto, amino, C₁-C₆-alkoxy, C₁-C₆-alkylthio, C₁-C₆-alkylamino or di-(C₁-C₄-alkyl)amino,

R¹⁵ represents hydroxyl, mercapto, amino, C₁-C₇-alkoxy, C₁-C₆-alkenyloxy, C₁-C₆-alkenyloxy-C₁-C₆-alkoxy, C₁-C₆-alkylthio, C₁-C₆-alkylamino or di-(C₁-C₄-alkyl)-amino,

15 R¹⁶ represents in each case optionally fluorine-, chlorine- and/or bromine-substituted C₁-C₄-alkyl,

R¹⁷ represents hydrogen, in each case optionally fluorine-, chlorine- and/or bromine-substituted C₁-C₆-alkyl, C₂-C₆-alkenyl or C₂-C₆-alkynyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, dioxolanyl-C₁-C₄-alkyl, furyl, furyl-C₁-C₄-alkyl, thienyl, thiazolyl, piperidinyl, or optionally fluorine-, chlorine- and/or bromine- or C₁-C₄-alkyl-substituted phenyl,

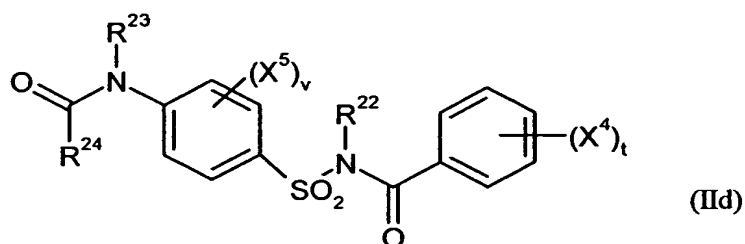
20

R¹⁸ represents hydrogen, in each case optionally fluorine-, chlorine- and/or bromine-substituted C₁-C₆-alkyl, C₂-C₆-alkenyl or C₂-C₆-alkynyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, dioxolanyl-C₁-C₄-alkyl, furyl, furyl-C₁-C₄-alkyl, thienyl, thiazolyl, piperidinyl, or

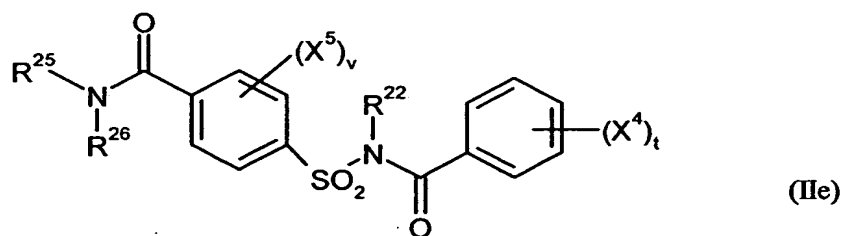
optionally fluorine-, chlorine- and/or bromine- or C₁-C₄-alkyl-substituted phenyl, R¹⁷ and R¹⁸ also together optionally represent C₃-C₆-alkanediyl or C₂-C₅-oxaalkanediyl, each of which is optionally substituted by C₁-C₄-alkyl, phenyl, furyl, a fused benzene ring or by two substituents which, together with the C atom to which they are attached, form a 5- or 6-membered carbocycle,

- R¹⁹ represents hydrogen, cyano, halogen, or represents in each case optionally fluorine-, chlorine- and/or bromine-substituted C₁-C₄-alkyl, C₃-C₆-cycloalkyl or phenyl,
- R²⁰ represents hydrogen, optionally hydroxyl-, cyano-, halogen- or C₁-C₄-alkoxy-substituted C₁-C₆-alkyl, C₃-C₆-cycloalkyl or tri-(C₁-C₄-alkyl)silyl,
- R²¹ represents hydrogen, cyano, halogen, or represents in each case optionally fluorine-, chlorine- and/or bromine-substituted C₁-C₄-alkyl, C₃-C₆-cycloalkyl or phenyl,
- X¹ represents nitro, cyano, halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy,
- X² represents hydrogen, cyano, nitro, halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy,
- X³ represents hydrogen, cyano, nitro, halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy,

and/or the following compounds, defined by general formulae, of the general formula (II d)

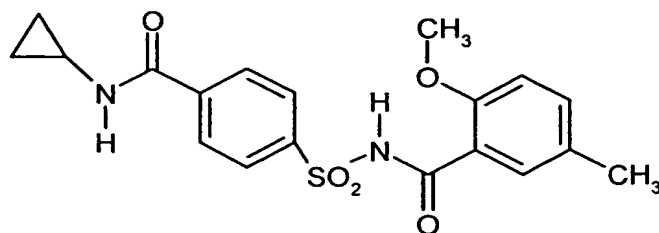


or of the general formula (II e)

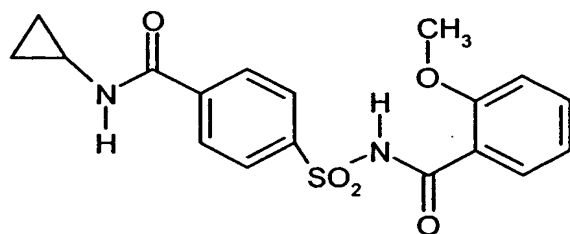


where

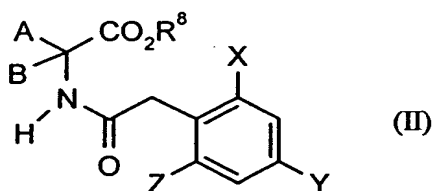
- t represents the number 0, 1, 2, 3, 4 or 5,
- v represents the number 0, 1, 2, 3, 4 or 5,
- R²² represents hydrogen or C₁-C₄-alkyl,
- 5 R²³ represents hydrogen or C₁-C₄-alkyl,
- R²⁴ represents hydrogen, in each case optionally cyano-, halogen- or C₁-C₄-alkoxy-substituted C₁-C₆-alkyl, C₁-C₆-alkoxy, C₁-C₆-alkylthio, C₁-C₆-alkylamino or di-(C₁-C₄-alkyl)amino, or in each case optionally cyano-, halogen- or C₁-C₄-alkyl-substituted C₃-C₆-cycloalkyl, C₃-C₆-cycloalkyloxy, C₃-C₆-cycloalkylthio or C₃-C₆-cycloalkylamino,
- 10 R²⁵ represents hydrogen, optionally cyano-, hydroxyl-, halogen- or C₁-C₄-alkoxy-substituted C₁-C₆-alkyl, in each case optionally cyano- or halogen-substituted C₃-C₆-alkenyl or C₃-C₆-alkynyl, or optionally cyano-, halogen- or C₁-C₄-alkyl-substituted C₃-C₆-cycloalkyl,
- 15 R²⁶ represents hydrogen, optionally cyano-, hydroxyl-, halogen- or C₁-C₄-alkoxy-substituted C₁-C₆-alkyl, in each case optionally cyano- or halogen-substituted C₃-C₆-alkenyl or C₃-C₆-alkynyl, optionally cyano-, halogen- or C₁-C₄-alkyl-substituted C₃-C₆-cycloalkyl, or optionally nitro-, cyano-, halogen-, C₁-C₄-alkyl-, C₁-C₄-haloalkyl, C₁-C₄-alkoxy- or C₁-C₄-haloalkoxy-substituted phenyl, or together with R²⁵
- 20 represents in each case optionally C₁-C₄-alkyl-substituted C₂-C₆-alkanediyl or C₂-C₅-oxaalkanediyl,
- X⁴ represents nitro, cyano, carboxyl, carbamoyl, formyl, sulphamoyl, hydroxyl, amino, halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy, and
- X⁵ represents nitro, cyano, carboxyl, carbamoyl, formyl, sulphamoyl, hydroxyl, amino,
- 25 halogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₁-C₄-alkoxy or C₁-C₄-haloalkoxy.
13. Compositions according to Claim 12, where the crop plant compatibility-improving compound is selected from the following group of compounds:
- cloquintocet-mexyl, fenclorazole-ethyl, isoxadifen-ethyl, mefenpyr-diethyl, furilazole, fenclorim, cumyluron, dymron or the compounds



and



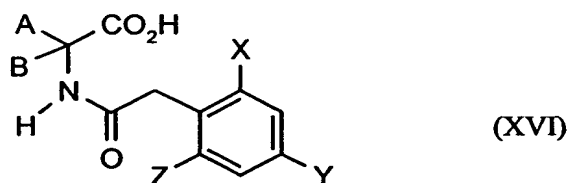
- 5 14. Compositions according to Claim 12 or 13 where the crop plant compatibility-improving compound is cloquintocet-mexyl or mefenpyr-diethyl.
15. Method for controlling unwanted vegetation, characterized in that a composition according to Claim 12 is allowed to react on the plants or their habitat.
16. Use of a composition according to Claim 12 for controlling unwanted vegetation.
- 10 17. Compounds of the formula (II)



in which

A, B, X, Y, Z and R⁸ are as defined above.

18. Compounds of the formula (XVI)



in which

A, B, X, Y and Z are as defined above.

19. 2-Chloro-4-methyl-6-ethylphenylacetic acid, methyl 2-chloro-4-methyl-6-phenylacetate,
1'-(2-chloro-4-methyl-6-ethylphenyl)-2',2',2'-trichloroethane and 2-chloro-6-ethyl-4-
5 methylaniline.